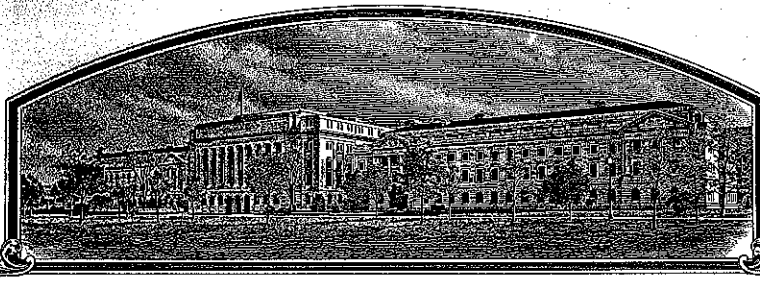


No.

200400255



# THE UNITED STATES OF AMERICA

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**

**Seminis Vegetable Seeds, Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE WHERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Triple Threat'

*In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this sixth day of February, in the year two thousand and seven.*

Attest:

*Blm Zee*

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service


*Will Johnson*

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER <b>Seminis Vegetable Seeds, Inc.</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME <b>PS 06516604</b>		3. VARIETY NAME <b>Triple Threat</b>	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) <b>2700 Camino del Sol Oxnard, CA 93030-7967</b>		5. TELEPHONE (include area code) <b>(805) 647-1572</b>		<b>FOR OFFICIAL USE ONLY</b> <b>PVPO NUMBER</b> <b>200400255</b> <b>FILING DATE</b> <b>June 28/2004</b>	
		6. FAX (include area code) <b>(805) 918-2545</b>			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) <b>Corporation</b>		8. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>California</b>			
9. DATE OF INCORPORATION <b>4-Jun-1962</b>		10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)		<b>FILING AND EXAMINATION FEES:</b> <b>\$ 3652.00</b> <b>DATE 3652.00 6/28/04</b> <b>CERTIFICATION FEE:</b> <b>\$ 768.00</b> <b>DATE</b>	
<b>Sharen Chaffin</b> <b>Seminis Vegetable Seeds, Inc.</b> <b>37437 State Hwy 16</b> <b>Woodland CA 95695</b>		<b>Carol Miller</b> <b>Marcel Bruins</b> <b>Seminis Vegetable Seeds, Inc.</b> <b>Nude 54D</b> <b>6702 DN Wageningen</b> <b>The Netherlands</b> <b>marcel.bruins@seminis.com</b> <b>PH: 31 317 450218; FX 31 317 450217</b>			
11. TELEPHONE (include area code) <b>(530) 669-6172</b>		12. FAX (include area code) <b>(530) 666-4426</b>			
13. E-MAIL <b>sharen.chaffin@seminis.com</b>		14. CROP KIND (Common Name) <b>Lettuce</b>			
15. GENUS AND SPECIES NAME OF CROP <b>Lactuca Sativa L.</b>		16. FAMILY NAME (Botanical) <b>Asteraceae</b>		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) <b>Sharen Chaffin</b>		NAME (Please print or type)			
CAPACITY OR TITLE <b>IP Specialist</b>		DATE <b>6-24-04</b>		CAPACITY OR TITLE	
				DATE	

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**Plant Variety Protection Office**

**Telephone: (301) 504-5518**

**FAX: (301) 504-5291**

**Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>**

**ITEM**

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See *Regulations and Rules of Practice, Section 97.103*).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

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**21. CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

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**22. CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

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US: January 2004 Sale

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**23. CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

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**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

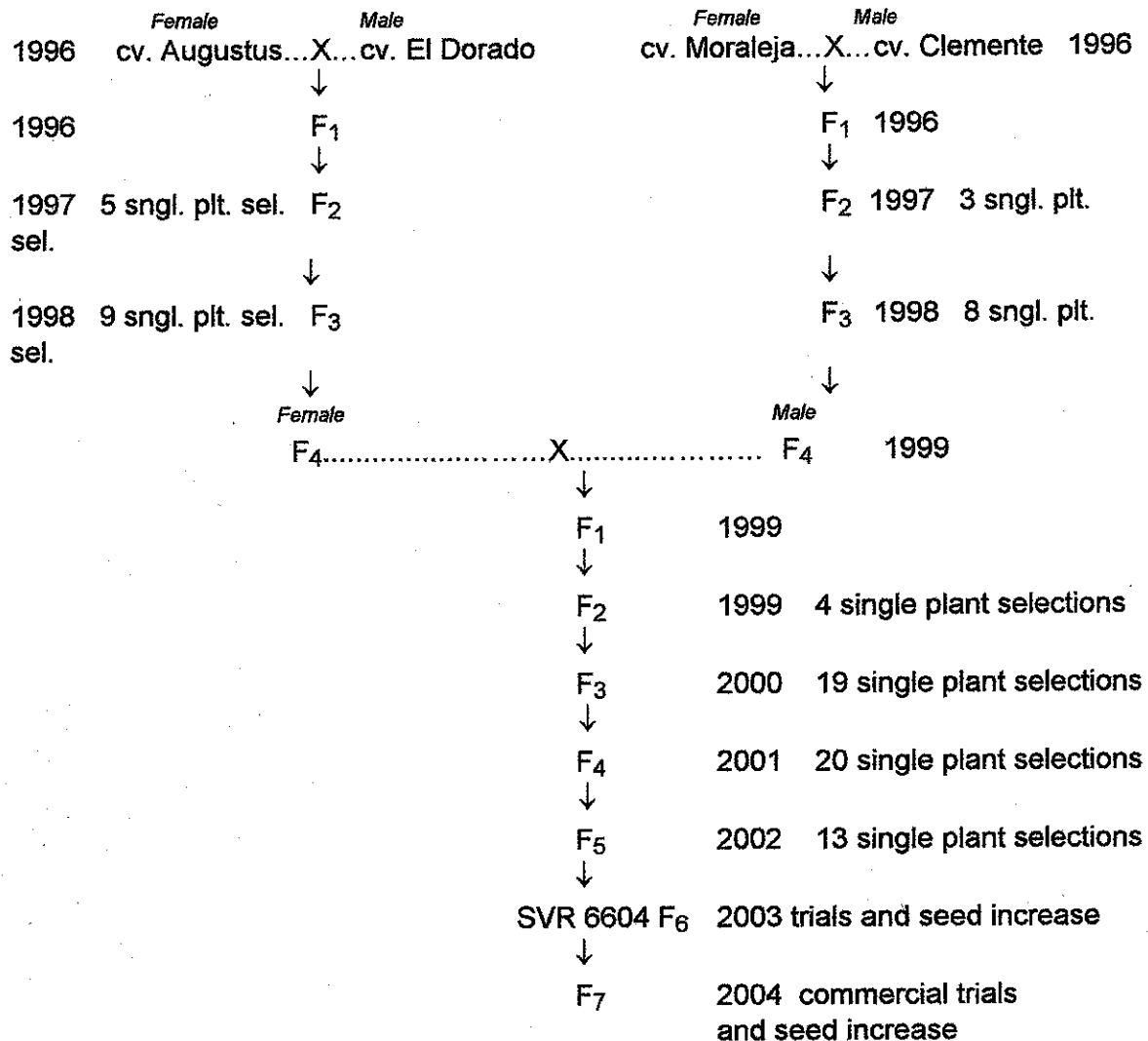
**To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed.htm>**

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470, (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

**Exhibit A. Origin and Breeding History of Lettuce cv. Triple Threat (SVR 6604)****Pedigree of cv. Triple Threat**

Cv. Triple Threat (SVR 6604) originated in 1996 with the cross cv. Augustus by cv. El Dorado. An F<sub>4</sub> selection from this cross was crossed to an F<sub>4</sub> selection from the cross cv. Moraleja (a romaine variety from Spain) by cv. Clemente, which was also begun in 1996. Single plant selections were made in subsequent years in the areas of intended commercialization. By F<sub>5</sub> a group of 13 families was judged uniform and bulked for trialing and seed increase. An F<sub>6</sub> mass was trialed extensively during 2003 and an increase of F<sub>7</sub> seed is being trialed in the coastal areas of Central California and also produced in the San Joaquin Valley of California this year.

The breeding work was carried out by Dr. William Waycott at the Seminis Vegetable Seed's Research Station at Arroyo Grande, California. Replicated field trials were conducted in production areas during 2003.

**Exhibit A. (continued)**

The breeding method employed was pedigree selection, using both single plant selection and mass selection practices. The selection criteria for cv. Triple Threat were:

1. a romaine cultivar with increased uniformity and improved heading ability, adapted to growing conditions in Coastal California, when compared to the most similar variety, cv. Clemente.
2. resistance to California pathotypes I, IIA, IIB, III, IV, and V of downy mildew.
3. resistance to corky root rot.
4. resistance to lettuce dieback (tomato bushy stunt virus).

In trials of cv. Triple Threat during the last three years covering generations F<sub>7</sub> to F<sub>9</sub>, we have seen neither genetic variants nor off-types in more than 6,000 plants, indicating that this variety is genetically uniform and stable.

Revised: 27-Oct-06

**Exhibit B. Novelty Statement of Lettuce cv. Triple Threat (SVR 6604)**

Cv. Triple Threat is described as a vigorous romaine lettuce cultivar adapted to Coastal California lettuce growing areas. Cv. Triple Threat is sown from December to August in the production areas of Coastal California. The possibility that this variety is adapted to production in the Desert Southwest is being investigated at this time. Cv. Triple Threat has the R18 gene and is resistant to California pathotypes I, IIa, IIb, III, IV, and V of downy mildew, to corky root rot, strain CA1, and to lettuce dieback (tomato bushy stunt virus). Cv. Clemente does not have the R18 gene. Although recently identified, lettuce dieback is a serious virus of romaine lettuce and appears to be spreading in many production areas located throughout the Central Coast of California. Cv. Triple Threat was selected for improved uniformity and performance compared to the most similar commercial cultivar, cv. Clemente.

Phenotypically, cv. Triple Threat is distinct from cv. Clemente. In replicated field trials, heads of cv. Triple Threat were taller (32.4 cm vs. 26.1 cm), narrower (23.1 cm vs. 226.0 cm), heavier (962 g vs. 853 g), and more uniform for head formation when compared to cv. Clemente (Table 1). While the leaf color of cv. Triple Threat was identical to Clemente (RHC color chart 146B), the heading tendency was stronger for the cv. Triple Threat. Cv. Triple Threat was equal in resistance to premature stem elongation (bolting) (63.5 days to 15 cm vs. 64 days) compared to cv. Clemente but was more susceptible to tipburn (1.5 lesions per head vs. 0.2).

The data presented here are statistically different at the 95% confidence level, exhibiting a range of means for tipburn presence from 1.45 to 1.50 for cv. Triple Threat and from 0.18 to 0.22 for cv. Clemente, of means for plant diameter from 32.33 to 32.48 for cv. Triple Threat and from 26.04 to 26.16 for cv. Clemente, of means for head diameter from 23.00 to 23.08 for cv. Triple Threat and from 26.04 to 26.16 for cv. Clemente, and of means for head weight from 960.18 to 964.32 for cv. Triple Threat and from 850.29 to 854.71 for cv. Clemente, using the 0.95 probability of generating confidence intervals (CI) that contains the means.

Revised: 27-Oct-06

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U. S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

EXHIBIT C  
(Lettuce)

OBJECTIVE DESCRIPTION OF VARIETY  
LETTUCE (*Lactuca sativa* L.)

NAME Seminis Vegetable Seeds, Inc. 2700 Camino del Sol Oxnard, CA 93030-7967	FOR OFFICIAL USE ONLY	
	PVPO NUMBER	200400255
	VARIETY NAME	TRIPLE THREAT
	EXPERIMENTAL DESIGNATION	SUR 6604/3A

Place the appropriate number that describes the varietal character in the boxes below. Place a zero in the first box (eg.  or ) when number is either 99 or less or 9 or less. Measured data should be the mean of an appropriate number (at least 20) of well spaced plants. Royal Horticultural Society or any recognized color standard may be used to determine plant colors.

The location of the test area is: CALIFORNIA, ARIZONA

Color System Used: ROYAL HORT. SOC.

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Application Variety (a1.) TRIPLE THREAT Most Similar Variety (c1.) CLEMENTE

Standard Regional Check Variety (c2.) PARRIS ISLAND Cos

1. PLANT TYPE: (See list of suggested check varieties page 4.)

01= Cutting/Leaf 04= Cos or Romaine 07= Salinas Group 10= Latin  
02= Butterhead 05= Great Lakes Group 08= Eastern (Ithaca) Group 11= OTHER (Specify below):  
03= Bibb 06= Vanguard Group 09= Stem

(a1.)  (c1.)  (c2.)

2. SEED:

(a1.) <input type="text" value="1"/>	COLOR	(a1.) <input type="text" value="2"/>	LIGHT DORMANCY	(a1.) <input type="text" value="1"/>	HEAT DORMANCY
(c1.) <input type="text" value="1"/>	1= White (Silver Grey)	(c1.) <input type="text" value="2"/>	1= Light Required	(c1.) <input type="text" value="1"/>	1= Susceptible
(c2.) <input type="text" value="1"/>	2= Black (Grey Brown)	(c2.) <input type="text" value="2"/>	2= Light Not Required	(c2.) <input type="text" value="1"/>	2= Not Susceptible
	3= Brown (Amber)				

3. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth leaf from 20 day old seedling grown under optimal conditions.

SHAPE OF COTYLEDONS: 1=Broad 2= Intermediate 3= Spatulate

(a1.)  (c1.)  (c2.)

## 3. Cotyledon to Fourth Leaf Stage (Continued)

## ROLLING:

1= Absent

2= Present

(a1.) ☐ (c1.) ☐ (c2.) ☐

## CUPPING:

1= Uncupped

2= Slight

3= Markedly

(a1.) ☐ (c1.) ☐ (c2.) ☐

## REFLEXING:

1= None

2= Apical Margin

3= Lateral Margins

(a1.) ☐ (c1.) ☐ (c2.) ☐

## 4. MATURE LEAVES (Observe Harvest-Mature Outer Leaves)

NOTE: Provide color photo of a harvest-mature leaf which accurately shows color and margin characteristics.

## MARGIN:

## INCISION DEPTH:

(deepest penetration of the margin)

1= Absent/Shallow (Dark Green Boston)

3= Deep (Great Lakes 659)

2= Moderate (Vanguard)

(a1.) ☐ (c1.) ☐ (c2.) ☐

## INDENTATION:

(finest divisions of the margin)

1= Entire (Dark Green Boston)

2= Shallowly Dentate (Great Lakes 65)

3= Deeply Dentate (Great Lakes 659)

4= Crenate (Vanguard)

5= OTHER (Specify): \_\_\_\_\_

(a1.) ☐ (c1.) ☐ (c2.) ☐

## UNDULATIONS OF THE APICAL MARGIN:

1= Absent/ Slight (Dark Green Boston)

3= Strong (Great Lakes 659)

2= Moderate (Vanguard)

(a1.) ☐ (c1.) ☐ (c2.) ☐

## GREEN COLOR:

1= Very Light Green (Bibb)

2= Light green (Minetto)

3= Medium Green (Great Lakes)

4= Dark Green (Vanguard)

5= Very Dark Green

6= OTHER (Specify): \_\_\_\_\_

(a1.) ☐ (c1.) ☐ (c2.) ☐

## ANTHOCYANIN:

## DISTRIBUTION:

1= Absent

2= Margin Only (Big Boston)

3= Spotted (Calif. Cream Butter)

4= Throughout (Prize Head)

5= OTHER (Specify below): \_\_\_\_\_

(a1.) ☐ (c1.) ☐ (c2.) ☐

## CONCENTRATION:

1= Light (Iceberg)

2= Moderate (Prize Head)

3= Intense (Ruby)

(a1.) ☐ (c1.) ☐ (c2.) ☐



## 6. BUTT

SHAPE:

1= Slightly Concave

2= Flat

3= Rounded

(a1.)  (c1.)  (c2.) 

MIDRIB:

1= Flattened (Salinas)

2= Moderately Raised

3= Prominently Raised (Great Lakes 659)

(a1.)  (c1.)  (c2.) 

## 7. CORE

DIAMETER AT BASE OF HEAD:

(a1.)  mm (c1.)  mm (c2.)  mm

RATIO OF HEAD DIAMETER/CORE DIAMETER:

(a1.)  (c1.)  (c2.) 

CORE HEIGHT FROM BASE OF HEAD TO APEX:

(a1.)  mm (c1.)  mm (c2.)  mm8. BOLTING (Give First Water Date: 28 APRIL 03) NOTE: First Water Date is the date seed first receives adequate moisture to germinate. This can and often does equal the planting date.

NUMBER OF DAYS FROM FIRST WATER DATE TO SEED STALK EMERGENCE (summer conditions):

(a1.)  (c1.)  (c2.) 

BOLTING CLASS:

1= Very Slow

3= Medium

5= Very Rapid

2= Slow

4= Rapid

(a1.)  (c1.)  (c2.) 

HEIGHT OF MATURE SEED STALK:

(a1.)  cm (c1.)  cm (c2.)  cm

SPREAD OF BOLTER PLANT: (at widest point)

(a1.)  cm (c1.)  cm (c2.)  cm

BOLTER LEAVES:

1= Straight

2= Curved

(a1.)  (c1.)  (c2.) 

MARGIN:

1= Entire

2= Dentate

(a1.)  (c1.)  (c2.)

## 11. VIRAL DISEASES

1= Immune 3= Resistant

5= Moderately Resistant/Moderately Susceptible 7= Susceptible

9= Highly Susceptible

Big Vein	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Lettuce Mosaic	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Cucumber Mosaic	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Tomato Bushy Stunt, cause of dieback	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Turnip Mosaic	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Beet Western Yellows	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Lettuce Infectious Yellows	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
OTHER (Specify): _____	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>

## 12. FUNGAL/BACTERIAL DISEASES

1= Immune 3= Resistant

5= Moderately Resistant/Moderately Susceptible 7= Susceptible

9= Highly Susceptible

Corky Root Rot (Races: <u>CA 1</u> )	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Downy Mildew (Races: <u>CA I, IIa, IIb, III, IV, V</u> )	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Powdery Mildew	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Sclerotinia Drop	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Bacterial Soft Rot ( <i>Pseudomonas</i> spp. and others)	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Botrytis (Grey Mold)	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Verticillium Wilt	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Bacterial Leaf Spot	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Anthracnose	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
OTHER (Specify): _____	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>

RAP  
9/2/06

## 13. INSECTS

1= Immune 3= Resistant

5= Moderately Resistant/Moderately Susceptible 7= Susceptible

9= Highly Susceptible

Cabbage Loopers	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Root Aphids	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Green Peach Aphid	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Lettuce Aphid	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Pea Leafminer	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
OTHER (Specify): _____	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>

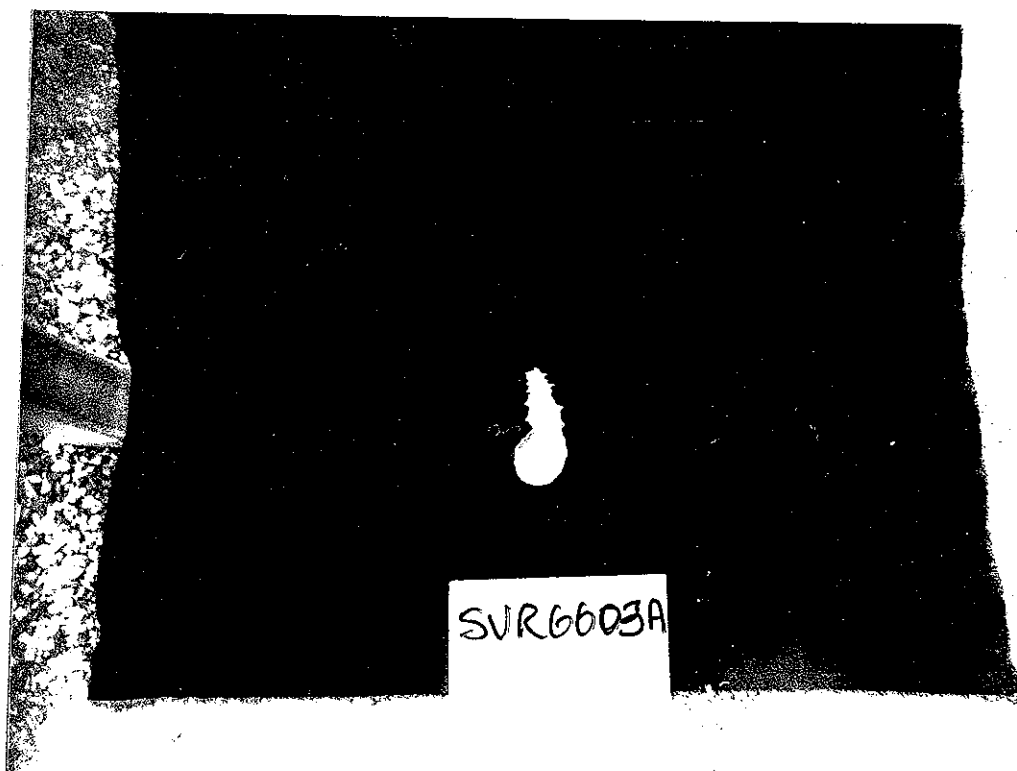
## 14. PHYSIOLOGICAL STRESSES

1= Immune 3= Resistant

5= Moderately Resistant/Moderately Susceptible 7= Susceptible

9= Highly Susceptible

Tipburn	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Heat	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Drought	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Cold	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Salt	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
Brown Rib (Rib Discoloration, Rib Blight)	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>
OTHER (Specify): _____	(a1.)	<input type="checkbox"/>	(c1.)	<input type="checkbox"/>	(c2.)	<input type="checkbox"/>



Fourth leaf from 20-day old seedlings, Triple Threat (SVR 6603A/6604)



Harvest —mature leaf, Triple Threat (SVR 6603A/6604)

Table 1. Evaluation of Triple Threat (SVR 6604) and the most similar cultivar, Clemente, for several important characters.

Trial No	Cultivar	Rep No.	Color <sup>a</sup>	Downy Mildew Resist. <sup>b</sup>	Corky Root Resist. <sup>c</sup>	Lettuce Dieback Resist. <sup>d</sup>	Tipburn Presence <sup>e</sup>	Plant Height <sup>f</sup>	Head Diam. <sup>g</sup>	Head Weight <sup>h</sup>	No. of Days to 15 cm <sup>i</sup>
Trial 1: Evaluated 15 May 2003 Salinas Valley, CA	Triple Threat:	Rep. 1	146B	I,IIa,IIb, III,IV,V	Resist.	Resist.	1.8±0.1	33.3±0.3	23.1±0.2	987±10.7	64
		Rep. 2	146B	I,IIa,IIb, III,IV,V	Resist.	Resist.	1.7±0.1	34.1±0.4	23.7±0.2	976±10.5	65
		Average:	146B	I,IIa,IIb, III,IV,V	Resist.	Resist.	1.8±0.1	33.7±0.4	23.4±0.2	982±10.6	65
		Rep. 1	146B	Suscept.	Resist.	Suscept.	0.3±0.1	27.5±0.3	26.2±0.2	865±10.6	65
		Rep. 2	146B	Suscept.	Resist.	Suscept.	0.3±0.1	28.3±0.3	27.0±0.3	883±10.2	66
Trial 2: Evaluated: 15 August 2006 Salinas Valley, CA	Triple Threat:	Average:	146B	Suscept.	Resist.	Resist.	0.3±0.1	27.9±0.3	26.6±0.3	874±10.4	66
		Rep. 1	146B	I,IIa,IIb, III,IV,V	Resist.	Resist.	1.1±0.1	30.5±0.3	22.9±0.3	935± 9.1	61
		Rep. 2	146B	I,IIa,IIb, III,IV,V	Resist.	Resist.	1.3±0.1	31.7±0.2	22.4±0.2	951± 9.4	62
		Average:	146B	I,IIa,IIb, III,IV,V	Resist.	Suscept.	1.2±0.1	31.1±0.3	22.7±0.3	943± 9.3	62
		Rep. 1	146B	Suscept.	Resist.	Suscept.	0.1±0.1	23.9±0.2	25.1±0.3	823± 9.2	61
Clemente:	Clemente:	Rep. 2	146B	Suscept.	Resist.	Suscept.	0.1±0.1	24.7±0.3	25.6±0.3	839± 9.5	63
		Average:	146B	Suscept.	Resist.	Suscept.	0.1±0.1	24.3±0.3	25.4±0.3	831± 9.4	62
		Rep. 1	146B	Suscept.	Resist.	Suscept.	0.1±0.1	24.3±0.3	25.4±0.3	831± 9.4	62

Range of variation among means of statistically significant differences at the 95% level using the confidence interval [CI = mean ± (SDXSE)]:  
cv. Triple Threat  
1.45 to 1.50 32.33 to 32.48 23.00 to 23.08 960.18 to 964.32  
cv. Clemente  
0.18 to 0.22 26.04 to 26.16 26.04 to 26.16 850.29 to 854.71

Range of variation among means of statistically significant differences at the 95% level using the confidence interval [CI = mean ± (SDXSE)]:  
 cv. Triple Threat 1.45 to 1.50 32.33 to 32.48 23.00 to 23.08 960.18 to 964.32  
 cv. Clemente 0.18 to 0.22 26.04 to 26.16 26.04 to 26.16 850.29 to 854.71

<sup>a</sup> Color evaluation was done using the Royal Horticultural Society color chart, U.K.

<sup>b</sup> Downy mildew survey reported as resistance to California Pathotypes I through V, using two replications each having 15 seedlings, grown in laboratory screens.

<sup>c</sup> Corky root rot survey of using five replications, each having 25 roots from plants grown in field trials in Monterey Counties, CA, evaluated between June and August, 2003.

<sup>d</sup> Lettuce dieback (tomato bushy stunt virus) survey of using five replications, each having 25 plants grown in field trials known to have severe inoculum in Monterey Counties, CA, evaluated between February and August, 2003.

<sup>e</sup> Mean tipburn incidence (number of lesions per head) using two sowing dates of 20 plants per replication ± standard deviation.

<sup>f</sup> Mean plant height using two sowing dates of 20 plants per replication in cm ± standard deviation.

<sup>g</sup> Mean head diameter using two sowing dates of 20 plants per replication in cm ± standard deviation.

<sup>h</sup> Mean head weight using two sowing dates of 20 plants per replication in grams ± standard deviation.

<sup>i</sup> Mean number of days until stem reaches 15 cm using two replications of 20 plants each.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S)  Seminis Vegetable Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  PS 06516604	3. VARIETY NAME  Triple Threat
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  2700 Camino del Sol Oxnard, CA 93030-7967	5. TELEPHONE (Include area code)  (805) 647-1572	6. FAX (Include area code)  (805) 918-2545
7. PVPO NUMBER		200400255

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☒ YES☐ NO

10. Is the applicant the original owner?

☒ YES☐ NOIf no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES☐ NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES☐ NO

If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

The variety named in this application was developed by the Seminis Vegetable Seeds, Inc., employee (breeder) named below. Unless otherwise stated, all rights to the varieties developed by Seminis Vegetable Seeds, Inc. are assigned to the Company by agreement or by operation of law. No rights to such invention, discovery or development are retained by the employee(s).

Employee (Breeder): Bill Waycott

Site Location: Arroyo Grande, CA

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.